

Contents

	<i>Page No.</i>
Preface	i
Acknowledgement	ii
Statutory declaration	iii
Abstract of the thesis	iv-vi
List of figures	vii-ix
List of tables	x-xi
List of plates	xii-xvii
Chapter I Introduction	1-17
1.1 Scope of the work	2
1.2 Selection of the topic	5
1.3 The problems	5
1.4 Overview of literature	7
1.5 Study area	9
1.6 Hypothesis	12
1.7 Aims and Objectives	13
1.8 Methodology	13
1.9 Sources of data	14
1.10 Design of the thesis	15
References	16
Chapter II Chronological growth of the settlement	18-36
2.1 Introduction	19
2.2 Early stage (upto 1947)	19
2.3 Post independence stage (1947-1971)	22
2.4 Post Bangladesh war stage (1971-2000)	25
2.5 Urban renewal stage (upto present day)	29
2.6 Conclusion	35
References	35
Chapter III Evolution of land use pattern	37-56
3.1 Introduction	38

3.2 Major land use	38
3.3 Ward-wise distribution of land use	40
3.4 Relative changes in past and present land use	50
3.5 Effect of land use changes on human habitation	52
3.6 Conclusion	55
References	56
Chapter IV Rapid urbanization and its effect	57-80
4.1 Introduction	58
4.2 Ward-wise concentration of household	58
4.3 Problems in the slum areas	63
4.4 Environmental and sanitation problems	73
4.5 Conclusion	78
References	79
Chapter V Drainage and sewerage problem	81-138
5.1 Introduction	82
5.2 Natural drainage of Balurghat town	82
5.3 Evolution of natural drainage way and its impact	86
5.4 Existing drainage system	91
5.5 Types of drainage	97
5.6 Slope condition and water-logging	98
5.7 Relationship between water-logging and occurrences of rainfall	106
5.8 Identification of water-logging area	107
5.9 Conclusion	137
References	138
Chapter VI Traffic and transport problem	139-159
6.1 Introduction	140
6.2 Narrow and serpentine roads	140
6.3 Scarcity of footpaths	143
6.4 Shortage of passenger sheds	148
6.5 Nature of traffic flow, traffic congestion and related problems	149
6.6 Encroachment along the road side by shops	155
6.7 Absence of automatic traffic signal	155

6.8 Problems of transportation gap	157
6.9 Conclusion	158
References	158
Chapter VII Problems related to waste disposal management	160-176
7.1 Introduction	161
7.2 Role of people	161
7.3 Municipal services	164
7.4 Collection of solid and semi-solid waste	169
7.5 Gathering of such waste to dumping yard	172
7.6 Conclusion	174
References	175
Chapter VIII Civic amenities and health-care services	177-202
8.1 Introduction	178
8.2 Existing infrastructure of basic urban services	178
8.3 Availability of services in District Hospital	191
8.4 Insufficient private sector in health-care	199
8.5 Inadequate infrastructure for better treatment	201
8.6 Conclusion	201
References	202
Chapter IX Proposed developmental strategies	203-217
9.1 Introduction	204
9.2 Strategies for better drainage facility	204
9.3 Improvement of roads for smooth traffic	207
9.4 Development in medical facilities	209
9.5 Proper management of solid waste	210
9.6 Development for transport and communication system	212
9.7 Internal resource generation for developmental activities	213
9.8 Conclusion	215
References	216
Chapter X Concluding remarks	218-225
Bibliography	226-230
List of abbreviations	231-232